



## Technical Data Sheet

### BC Proof 330

#### Two-Component Aliphatic Pure Polyurea Waterproofing Membrane (UV Resistant)

#### 1). Product Description

BC Proof 330 is a high-performance, two-component, 100% solids, fast-curing aliphatic pure polyurea waterproofing membrane designed for exposed roofing, terraces, balconies, and areas requiring excellent UV stability, durability, and long-term protection. The product is applied by heated plural-component spray equipment and forms a seamless, elastic, highly durable waterproof membrane.

#### 2). Features & Advantages

- Excellent UV and color stability
- Very fast curing; rapid return to service
- Seamless monolithic membrane with high elongation
- High abrasion, impact, and puncture resistance
- Highly resistant to weathering and harsh climatic conditions
- 100% solids – VOC free
- Suitable for detailing complex shapes and confined areas
- Excellent adhesion with recommended primers
- High mechanical strength and chemical resistance

#### 3). Typical Uses

BC Proof 330 is recommended for:

- Exposed roof waterproofing
- Terraces, balconies, podium decks
- Roof screeds and walkways
- Protective coating for decorative landscaping structures
- Waterproofing for industrial and commercial roofs
- Refurbishment of existing roof membranes



#### 4). Technical Data

Property	Value
Composition	Two-component aliphatic pure polyurea
Color	RAL colors available upon request
Density (Part A / Part B)	~1.15 kg/L
Viscosity (Part A)	1700–2400 mPas
Viscosity (Part B)	2700–3700 mPas
Solid Content	100%
Shore D Hardness	~50
Tensile Strength	~17 N/mm <sup>2</sup>
Elongation at Break	60–80%
Tear Strength	~90 kN/m
Abrasion Resistance	<100 mg
Service Temperature	-20°C to +90°C
Gel Time	~5 seconds
Light Traffic	~8 hours
Full Cure	~24 hours

#### 5). Surface Preparation

- Substrates must be clean, dry, sound, and free from oil, grease, dust, or laitance.
- Concrete must have minimum compressive strength of 25 MPa and tensile strength  $\geq 1.5$  MPa.
- Remove weak or damaged concrete by mechanical grinding or shot-blasting.



- Repair defects, voids, and cracks with suitable BC repair systems.
- Moisture content must be  $\leq 4\%$  (no rising moisture).
- Use suitable primers (epoxy or polyurea primers) depending on substrate condition and porosity.
- On porous surfaces or areas prone to outgassing, apply primer during falling temperature conditions.

### Mixing

BC Proof 330 is designed for plural-component, heated, high-pressure spray machines.

- Part A and Part B must not be manually mixed.
- Ensure material is conditioned at recommended temperatures prior to spraying.
- Equipment must be able to accurately control temperature, pressure, and A/B ratio.

### Application

1. Confirm surface preparation and primer curing conditions.
2. Apply BC Proof 330 using a heated, high-pressure plural-component spray system.
3. Maintain correct mixing ratio and spray parameters.
4. Apply in a continuous manner to achieve uniform film thickness.
5. Recommended consumption:  $\geq 1.8 \text{ kg/m}^2$ .
6. Ensure clean termination edges, overlaps, and details.
7. Protect adjacent surfaces from overspray.

## 6). Coverage

- $\geq 1.8 \text{ kg/m}^2$  for standard waterproofing membrane  
(Consumption varies based on substrate profile, roughness, and required dry film thickness.)

## 7). Packing

- 20 kg Set
  - Part A : 13 kg
  - Part B : 7 kg



## 8). Shelf Life & Storage

- 12 months from date of manufacture in original sealed containers.
- Store between +5°C and +30°C in a cool, dry place.
- Protect from direct sunlight, moisture, and frost.
- Higher storage temperatures may reduce shelf life.

## 9). Health & Safety

- Use only in well-ventilated areas.
- Mandatory use of full PPE: gloves, goggles, respirators, protective clothing.
- Avoid inhalation of vapors and contact with skin or eyes.
- In case of contact, rinse immediately with clean water.
- Refer to the BC Proof 330 Safety Data Sheet (SDS) for detailed handling and disposal guidance.

### DISCLAIMER

The data presented in this sheet are based on laboratory testing and practical experience. Variations in substrate, application method, and environmental conditions may impact performance. Users are advised to carry out tests under their own conditions. Building Chemistry Industry's responsibility is limited to the product replacement in cases of proven manufacturing defect.

